	Application No.	Applicant(s)	
Notice of Allowability			An
	10/764,574 Examiner	KATAGIRI ET AL.	
	Cxammer	Artonit	
	Frederick F. Rosenberger	2878	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicat GHTS. This application is subject	application. If not included ion will be mailed in due co	ourse. THIS
1. This communication is responsive to <u>8/15/2005</u> .			
2. X The allowed claim(s) is/are 1.2 and 4.			
 3. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 			
2. Certified copies of the priority documents have			
Copies of the certified copies of the priority documents have	· · ·		n from the
International Bureau (PCT Rule 17.2(a)).	differits flave been received in the	is national stage application	iii iioiii tiie
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ly complying with the requ	irements
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 			TICE OF .
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PT	O-948) attached	
1) I hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	e Office action of	
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the			ack) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 			te the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Informa	I Patent Application (PTO-	152)
2. ☐ Notice of Preferences offed (1 10-002) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summa	ry (PTO-413),	132)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail [8), 7. Examiner's Amer		
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's State	ment of Reasons for Allow	ance
of Biological Material	9.		

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DETAILED ACTION

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1. Applicant's amendment, filed on 8/15/2005, has been received and entered. Accordingly, changes have been made to the drawings and the specification. Claims 3, 5, and 6 have been cancelled. Claims 1, 2, and 4 remain pending in this application.

- 2. The drawings were received on 8/15/2005. These drawings are acceptable.
- 3. Applicant's amendments to the specification have overcome the objections, as detailed in paragraph 3 of the previous Office action.

Allowable Subject Matter

- 4. Claims 1, 2, and 4 are allowed.
- 5. The following is an examiner's statement of reasons for allowance: As stated in the previous Office action, while radiation sensitive semiconductor devices employing InSb operating at cryogenic temperatures are known in the art, the prior art fails to teach or reasonably suggest using a high purity InSb single crystal semiconductor that is not artificially doped with impurities.

 Radiation detection in prior art systems employing InSb with diode characteristics primarily use doped versions of the semiconductor. As such, applicant's

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disclosure provides a novel and nonobvious improvement over the prior art.

Accordingly, the presently pending claims would be allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick F. Rosenberger whose telephone number is 571-272-6107. The examiner can normally be reached on Monday-Friday 7:30 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on 571-272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frederick F. Rosenberger Patent Examiner GAU 2878

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800